

N2XCY Cable



Eland Product Group: B2O

APPLICATION

The N2XCY cable is suitable for installation in ground, indoors, cable trunking and outdoors. Used for power distribution in industrial application, including urban networks and household feeders.

CHARACTERISTICS

Voltage Rating U_0/U
0.6/1kV

Test Voltage
3.5kV

Temperature Rating
Maximum Operating: +90°C
Maximum Short-Circuit: +250°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
PVC (Polyvinyl chloride)

Concentric Conductor
Copper

Tape
Protective Copper Tape

Outer Sheath
PVC (Polyvinyl chloride)

Core Identification
2 core: ● Brown ● Blue
3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
7 core and above: ● Black ● Green/Yellow

Outer Sheath Colour
● Black

STANDARDS

IEC 60502-1, VDE 0276-603, IS 1516.1

Flame retardant according to IEC 60332-1

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/863/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B20020015BK	2	1.5/1.5	1.37	0.70	1.24	12	186
B20020025BK	2	2.5/2.5	1.76	0.70	1.24	13	233
B20020040BK	2	4/4	2.21	0.70	1.24	14	298
B20020060BK	2	6/6	2.71	0.70	1.24	15	380
B2002010BK	2	10/10	3.85	0.70	1.24	17	560
B2002016BK	2	16/10	4.8	0.70	1.24	20	801
B2002025BK	2	25/16	5.8	0.90	1.24	23	1063
B2002035BK	2	35/16	6.85	0.90	1.24	25	1312
B2002050BK	2	50/25	8.1	1.00	1.32	29	1761
B2002070BK	2	70/35	9.7	1.10	1.40	33	2445
B2002095BK	2	95/50	11.4	1.10	1.48	37	3230
B2002120BK	2	120/70	13.1	1.20	1.64	42	4137
B2002150BK	2	150/70	14.5	1.40	1.72	46	4897
B2002185BK	2	185/95	16.0	1.60	1.88	51	6097
B2002240BK	2	240/120	18.6	1.70	2.04	57	7923
B2002300BK	2	300/150	21.0	1.80	2.20	63	9819
B20030015BK	3	1.5/1.5	1.3	0.7	1.24	12	203
B20030025BK	3	2.5/2.5	1.76	0.7	1.24	13	260
B20030040BK	3	4/4	2.21	0.7	1.24	14	336
B20030060BK	3	6/6	2.71	0.7	1.24	16	433
B2003010BK	3	10/10	3.8	0.7	1.24	18	637
B2003016BK	3	16/10	4.8	0.7	1.24	22	1044
B2003025BK	3	25/16	5.9	0.9	1.24	27	1421
B2003035BK	3	35/16	6.9	0.9	1.32	29	1763
B2003050BK	3	50/25	8.2	1	1.4	33	2369
B2003070BK	3	70/35	9.7	1.1	1.56	38	3250
B2003095BK	3	95/50	11.4	1.1	1.64	42	4337
B2003120BK	3	120/70	13.1	1.2	1.8	48	5526
B2003150BK	3	150/70	14.2	1.4	1.88	51	6486
B2003185BK	3	185/95	15.8	1.6	2.04	57	8108
B2003240BK	3	240/120	18.6	1.7	2.2	64	10459
B2003300BK	3	300/150	21	1.8	2.36	68	12541
B20040015BK	4	1.5/1.5	1.3	0.7	1.24	13	245
B20040025BK	4	2.5/2.5	1.76	0.7	1.24	14	317
B20040040BK	4	4/4	2.21	0.7	1.24	16	415
B20040060BK	4	6/6	2.71	0.7	1.24	17	537
B2004010BK	4	10/10	3.9	0.7	1.24	20	806
B2004016BK	4	16/10	4.8	0.7	1.24	22	1137
B2004025BK	4	25/16	5.9	0.9	1.24	27	1593
B2004035BK	4	35/16	6.9	0.9	1.32	30	2059
B2004050BK	4	50/25	8.2	1	1.4	34	2753
B2004070BK	4	70/35	9.7	1.1	1.56	39	3821
B2004095BK	4	95/50	11.4	1.1	1.72	44	5111
B2004120BK	4	120/70	13.1	1.2	1.88	50	6501
B2004150BK	4	150/70	14.2	1.4	1.96	53	7748
B2004185BK	4	185/95	15.8	1.6	2.12	59	9609
B2004240BK	4	240/120	18.6	1.7	2.28	67	12480
B2004300BK	4	300/150	21	1.8	2.52	75	15709



DIMENSIONS

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B2O050015BK	5	1.5/1.5	1.3	0.7	1.24	14	271
B2O050025BK	5	2.5/2.5	1.76	0.7	1.24	16	384
B2O050040BK	5	4/4	2.21	0.7	1.24	17	509
B2O050060BK	5	6/6	2.71	0.7	1.24	19	641
B2O05010BK	5	10/10	3.9	0.7	1.24	22	974
B2O05016BK	5	16/10	4.8	0.7	1.24	25	1414
B2O05025BK	5	25/16	5.9	0.9	1.32	30	1993
B2O05035BK	5	35/16	6.9	0.9	1.4	33	2503
B2O05050BK	5	50/25	8.2	1	1.56	38	3453
B2O070015BK	7	1.5/1.5	1.37	0.7	1.24	15	332
B2O070025BK	7	2.5/2.5	1.76	0.7	1.24	16	432
B2O080015BK	8	1.5/1.5	1.37	0.7	1.24	16	388
B2O080025BK	8	2.5/2.5	1.76	0.7	1.24	18	507
B2O100015BK	10	1.5/1.5	1.37	0.7	1.24	18	470
B2O100025BK	10	2.5/2.5	1.76	0.7	1.24	19	616
B2O120015BK	12	1.5/1.5	1.37	0.7	1.24	18	507
B2O120025BK	12	2.5/2.5	1.76	0.7	1.24	20	671
B2O140015BK	14	1.5/1.5	1.37	0.7	1.24	19	556
B2O140025BK	14	2.5/2.5	1.76	0.7	1.24	21	740
B2O160015BK	16	1.5/1.5	1.37	0.7	1.24	20	612
B2O160025BK	16	2.5/2.5	1.76	0.7	1.24	22	819
B2O190015BK	19	1.5/1.5	1.37	0.7	1.24	20	679
B2O190025BK	19	2.5/2.5	1.76	0.7	1.24	23	916
B2O210015BK	21	1.5/1.5	1.37	0.7	1.24	21	745
B2O210025BK	21	2.5/2.5	1.76	0.7	1.24	24	1006
B2O240015BK	24	1.5/1.5	1.37	0.7	1.24	23	835
B2O240025BK	24	2.5/2.5	1.76	0.7	1.24	25	1132



CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor
	Cu	Al	Cu	Al	Cu	Al	Plain Wires
1.5	7	-	6	-	-	-	12.1
2.5	7	-	6	-	-	-	7.41
4	7	-	6	-	-	-	4.61
6	7	-	6	-	-	-	3.08
10	7	7	6	6	-	-	1.83
16	7	7	6	6	-	-	1.15
25	7	7	6	6	6	6	0.727
35	7	7	6	6	6	6	0.524
50	19	19	6	6	6	6	0.387
70	19	19	12	12	12	12	0.268
95	19	19	15	15	15	15	0.193
120	37	37	18	15	18	15	0.153
150	37	37	18	15	18	15	0.124
185	37	37	30	30	30	30	0.0991
240	37	37	34	30	34	30	0.0754
300	61	61	34	30	34	30	0.0601

The above table is in accordance with EN 60228

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity at 30°C

NOMINAL CROSS SECTIONAL AREA mm ²	NO. OF CORES													
	2, 3, 4 & 5 Core		7 Core		8 Core		10 Core		12 Core		14, 16 & 19 Core		21 & 24 Core	
	In ground A	In Air A	In ground A	In Air A	In ground A	In Air A	In ground A	In Air A	In ground A	In Air A	In ground A	In Air A	In ground A	In Air A
1.5	31	25	18.6	16.3	16	12	15.5	13.8	15	12.5	12.4	11.3	10.9	10
2.5	40	33	24.6	21.5	24	16	20.5	18.2	18.5	16.5	16.2	14.9	14.4	13.2
4	52	43	-	-	-	-	-	-	-	-	-	-	-	-
6	65	54	-	-	-	-	-	-	-	-	-	-	-	-
10	87	75	-	-	-	-	-	-	-	-	-	-	-	-
16	113	100	-	-	-	-	-	-	-	-	-	-	-	-
25	146	136	-	-	-	-	-	-	-	-	-	-	-	-
35	176	165	-	-	-	-	-	-	-	-	-	-	-	-
50	208	201	-	-	-	-	-	-	-	-	-	-	-	-
70	156	255	-	-	-	-	-	-	-	-	-	-	-	-
95	307	314	-	-	-	-	-	-	-	-	-	-	-	-
120	349	364	-	-	-	-	-	-	-	-	-	-	-	-
150	391	416	-	-	-	-	-	-	-	-	-	-	-	-
185	442	480	-	-	-	-	-	-	-	-	-	-	-	-
240	509	565	-	-	-	-	-	-	-	-	-	-	-	-
300	580	638	-	-	-	-	-	-	-	-	-	-	-	-

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.